

AMENDMENT TO THE CLAIMS

Please cancel Claims 30-46, without prejudice. Please add new claims 64 and 65.

1-46. (Canceled)

47. (previously added) An inductive coil for an electromotive device, comprising:

a pair of concentric conductive sheet metal winding portions each comprising a plurality of axially extending conductive bands each being separated from an adjacent conductive band by a space, each of the conductive bands of one of the winding portions being coupled to one of the conductive bands of the other winding portion, the winding portions being encapsulated in a non-layered material that extends from a space between two adjacent conductive bands of said one of the winding portions to a space between two adjacent bands of the other winding portion.

48. (previously added) The inductive coil of claim 47 where the winding portions are encapsulated in a potting material.

49. (previously added) The inductive coil of claim 48 wherein the potting material comprises polyimide.

50. (previously added) The inductive coil of claim 47 further comprising an insulator disposed between the winding portions.

51. (previously added) The inductive coil of claim 50 wherein the insulator comprises a non-conductive filament wrapped around an outer surface of said one of the winding portions.

52. (previously added) The inductive coil of claim 51 wherein the non-conductive filament comprises glass fiber.

53. (previously added) The inductive coil of claim 51 where the non-conductive filament comprises a thickness between 0.00030-0.00075 inch.

54. (previously added) The inductive coil of claim 47 wherein each of the spaces separating the conductive bands is less than 1.5 time the thickness of each of the conductive bands.

55. (previously added) The inductive coil of claim 47 wherein each of the winding portions comprises precision machined and rolled copper.

56. (previously added) The inductive coil of claim 47 wherein each of the conductive bands comprises a tensile strength greater than 40,000 psi.

57. (previously added) The inductive coil of claim 47 wherein each of the conductive bands comprises a yield strength greater than 30,000 psi.

58. (previously added) The inductive coil of claim 47 wherein each of the conductive bands comprises a percent elongation less than 20%.

59. (previously added) The inductive coil of claim 47 wherein each of the conductive bands comprises a hardness greater than a Brunell number of 70.

60. (previously added) The inductive coil of claim 47 further comprising an electrically insulated metal flywheel coupled to the interior portion of the induction coil.

61. (previously added) The inductive coil of claim 60 wherein the electrical insulation comprises an anodized outer surface of the flywheel, the anodized outer surface being in contact with the interior portion of the induction coil.

62. (previously added) The inductive coil of claim 61 where in the metal comprises aluminum.

63. (previously added) The induction coil of claim 60 wherein the metal comprises aluminum.

64. (New) The inductive coil of claim 50 wherein the insulator is porous to the non-layered material.

65. (New) The inductive coil of claim 64 wherein the insulator has areas that are porous to the non-layered material and wherein the non-layered material fills these areas.